509 **8   ABSTRACT OF THE DISCLOSURE**

510 The invention belongs to the technical domain of decoding, classification, alignment and

511 matching of data.

512   The invention introduces a new method performing tasks in keyword spotting in ut-

513 terances, detection of subsequences in chains of organic matter (DNA and proteins) and

514 recognition of objects in images. The proposed method searches in an optimized way the

515 matching that maximizes, over all the possible matchings, certain confidence measures based

516 on normalized posteriors. Three such confidence measures are used, two existed in previous

517 work in Speech Recognition, and the third one is a new one.

518   Application fields for this invention are: man-machine interfaces (using speech recogni-

519 tion; ex: control systems, banking, flight services, etc), coordination systems (for industrial

520 robots and automata) and development systems for pharmaceutic products.